

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

CONSTRUCTION SPECIFICATION

CS-21: "DIVERSION"

21.1 SCOPE

The work shall consist of constructing a channel across the slope, with a supporting ridge on the lower side as shown on the drawings, or as staked in the field by the technical representative.

21.2 MATERIAL

The earth material used in constructing the diversion shall be obtained from the diversion channel, designated borrow areas, or other required excavation. The fill matrix shall contain no frozen earth material, rock fragments greater than 4 inches in diameter, sod, brush, or other foreign material.

21.3 CONSTRUCTION

- a. The foundation of all fill sections shall be prepared so that a good bond is obtained between the base and fill material. Heavy sod shall be stripped a minimum 6-inch depth and the area scarified. Existing banks shall be cleared of all debris and sloped to a 1:1 slope or flatter before fill placement. All dead furrows and gullies to be crossed shall be filled and compacted. All old terraces, fence rows, and obstructions that will interfere with the diversion shall be removed. All trees, brush, stumps, and vegetation shall be removed and disposed at sites shown on the drawings or as approved by the technical representative.
- b. Fill material shall be placed in uncompacted layers of 6 inches or less. Each layer shall be compacted by the construction equipment in such a manner that the entire surface of each fill will be traversed by one wheel tread or track of the equipment.
- c. When stated on the drawing, the topsoil shall be removed, stockpiled, and replaced after initial grading.
- d. The top of the constructed ridge shall not be lower at any point than the design elevation plus 20 percent, but not less than 6 inches above the design elevation for settlement.